Construction Maximum Total Hourly Emission Rates											
TAIL PIPE EMISSIONS ("EXHAUST")		<u>N</u>	$\underline{\mathbf{NO}}_{\mathbf{x}}$		<u>CO</u>		$\underline{\mathbf{PM}}_{10}$		$\underline{SO}_2$		
		(lb/hr)	$(g/s)^{1}$	(lb/hr)	$(g/s)^{1}$	(lb/hr)	$(g/s)^{1}$	(lb/hr)	$(g/s)^{1}$		
S'taault (E	- 41 - and and Ciril Equipment Co.	···ttion En									
Sitework (12.	arthwork and Civil) Equipment Co Maximum Hourly	nstruction Em	0.236	11.8	1.492			0.16	0.020		
	Maximum 3-Hour <sup>2</sup>		0.230					0.16	0.020		
	Maximum 8-Hour <sup>2</sup>			11.8	1.492			0.10			
	Maximum 24-Hour <sup>3</sup>				1.492	0.14	0.018	0.13	0.016		
	Annual 4	0.50	0.063			0.14	0.018	0.13	0.016		
	Ailluai	0.50	0.005			0.05	0.0000	0.05	0.000		
Erection Su	pport Equipment Construction Emi	issions									
	Maximum Hourly	25.1	3.164	24.0	3.028			2.49	0.314		
	Maximum 3-Hour <sup>2</sup>							2.49	0.314		
	Maximum 8-Hour <sup>2</sup>			24.0	3.028						
	Maximum 24-Hour <sup>3</sup>					1.44	0.181	2.08	0.262		
	Annual <sup>4</sup>	6.05	0.762			0.41	0.052	0.59	0.074		
TOTAL EM	IISSIONS (used as model input)										
	Maximum Hourly	27.0	3.399	35.9	4.520			2.7	0.334		
	Maximum 3-Hour <sup>2</sup>							2.7	0.334		
	Maximum 8-Hour <sup>2</sup>			35.9	4.520						
	Maximum 24-Hour <sup>3</sup>					1.6	0.199	2.2	0.278		
	Annual <sup>4</sup>	6.6	0.825			0.5	0.058	0.6	0.081		
FUGITIVE DUST EMISSIONS						<u>PM</u> <sub>10</sub>					
(Onsite Const	ruction)					(lb/hr)	(g/s) 1				
Constructio	n Dust (PM <sub>10</sub> ) Emissions- Plant Site										
00	Maximum 24-Hour <sup>5</sup>					0.48	0.060				
	1714AIII					00	0.000				
Construction	n Dust (PM <sub>10</sub> ) Emissions - Plant Site	e									
	Annual <sup>6</sup>					0.17	0.021				

Grams per second (g/s) = lbs/hr \* 0.126

<sup>&</sup>lt;sup>2</sup> 3-hour Lbs/Hr and 8-hour Lbs/Hr = Maximum Lbs/Hr

 $<sup>^3</sup>$  24-hour lbs/hr = Maximum daily PM<sub>10</sub> emissions (lb/day) divided by 24 hours.

<sup>&</sup>lt;sup>4</sup> Annual Tail Pipe (Exhaust) Lbs/Hr = Annual emissions (TPY) \* (2000 hrs/yr) \* (1 yr/8760 hours).

<sup>&</sup>lt;sup>5</sup> 24-hour fugitive dust emissions are based on 7.33 lbs/acre/day (0.11 ton/acre/month) (Midwest Research Institute 1996) PM<sub>10</sub>, 20-hour workdays and 50% control efficiency.

<sup>&</sup>lt;sup>6</sup> Annual fugitive dust emissions are based on 5 months disturbance, assume one half of the plant site disturbed at any given time, 6 days per week, 20-hour workdays and assume a 50% control efficiency.

## **GWF - Construction Site Modeling Emissions**

TAIL PIPE EMISSIONS ("EXHAUST")	$\underline{NO_x}^5$	<u>CO</u> 5	$PM_{10}^{5,6}$	SO <sub>2</sub> 5,6
,	(g/s)	(g/s)	(g/s)	(g/s)
Sitework (Earthwork and Civil) Equipment Construction E Maximum Hourly	Cmissions 0.039	0.249		0.003
Maximum 1-Houry	0.039	0.249	<b></b>	0.003
Maximum 8-Hour		0.249		
Maximum 24-Hour		0.247	0.003	0.003
Annual	0.011		0.003	0.003
Erection Support Equipment Construction Emissions	^ <b></b>	0.505		0.05-
Maximum Hourly	0.527	0.505		0.052
Maximum 3-Hour				0.052
Maximum 8-Hour		0.505		
Maximum 24-Hour			0.030	0.044
Annual	0.127		0.009	0.012
TOTAL EMISSIONS (used as model input)				
Maximum Hourly	0.566	0.754		0.055
Maximum 3-Hour				0.055
Maximum 8-Hour		0.754		
Maximum 24-Hour			0.033	0.047
Annual	0.138		0.010	0.013
FUGITIVE DUST EMISSIONS <sup>2</sup>			<u>PM</u> <sub>10</sub>	
			(g/s)	
Construction Dust (PM10) Emissions- Plant Site				
Maximum 24-Hour			0.060	
Construction Dust (PM10) Emissions - Plant Site				
Annual			0.021	
	1			
For modeling purposes, the tailpipe ("Exhaust") emissions were split evenly	between six point sources. in the proposed plant constru			